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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/847,645	05/01/2001	Charles L. Asbury	UW - Asbury	6607	
75	90 04/22/2003				
Delbet J. Barnard			EXAMINER		
BARNARD & 1			VANORE,	VANORE, DAVID A	
P.O. Box 58888 Seattle, WA 98138-1888					
Seattle, WA 9	3130-1000		ART UNIT	PAPER NUMBER	
			2881		
			DATE MAILED: 04/22/2003	DATE MAILED: 04/22/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

• • • •	Application No.	Applicant(s)	X
	09/847,645	ASBURY ET AL.	
Office Action Summary	Examin r	Art Unit	
-	David A Vanore	2881	
The MAILING DATE of this communication app		ith the corr spondenc add	r ss
Period for Reply	VIC OFT TO EVDIDE AN	MONITH(S) EDOM	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a y within the statutory minimum of thi will apply and will expire SIX (6) MOI a cause the application to become A	reply be timely filed  ty (30) days will be considered timely.  NTHS from the mailing date of this cor  BANDONED (35 U.S.C. § 133).	nmunication.
1) Responsive to communication(s) filed on 13.	<u> April 2003</u> .		
2a)⊠ This action is <b>FINAL</b> . 2b)□ Th	nis action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims	ance except for formal ma Ex parte Quayle, 1935 C.	atters, prosecution as to the D. 11, 453 O.G. 213.	e merits is
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-18</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine			
10)⊠ The drawing(s) filed on <u>24 March 2000</u> is/are:			
Applicant may not request that any objection to the			
11)☐ The proposed drawing correction filed on		disapproved by the Examine	r.
If approved, corrected drawings are required in re			
12) ☐ The oath or declaration is objected to by the Ex	xaminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13)⊠ Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
1. Certified copies of the priority documen			
<ol><li>Certified copies of the priority documen</li></ol>	ts have been received in A	Application No	
<ul> <li>3. Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list</li> </ul>	ureau (PCT Rule 17.2(a)).		Stage
14)☐ Acknowledgment is made of a claim for domest	tic priority under 35 U.S.C	. § 119(e) (to a provisional	application).
a) ☐ The translation of the foreign language pr 15)☐ Acknowledgment is made of a claim for domes			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice o	v Summary (PTO-413) Paper No( f Informal Patent Application (PTC	

Art Unit: 2881

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5, 6, 10, 11, 12, 13, and 18 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Howie et al.

Howie et al. teaches a device for sample analysis comprising a polarized radiation source (2), a flow chamber (15), and a plurality of signal detectors (4, 17) arranged at a desired angle around the flow chamber (Note Fig. 3) as recited in claims 1, 6, 11, 12, and 13.

Given that Howie et al. teaches the placement of detectors to "surround the cell" (Col. 6 Lines 29-65), the detection apparatus of Howie et al. teaches that detectors may be placed at any orientation to the polarized radiation source and flow chamber including at 54.7 degrees from the direction of polarization or 35.3 degrees from the direction of polarization as recited in claims 5, 10, 11, 12, and 18.

It would have been obvious to one having ordinary skill in the art to select the optimum value of the position of the detectors because one of ordinary skill in the art would select the position of the detectors for the analysis of a desired scattered radiation.

Art Unit: 2881

Claims 2-4, 7-9, and 14-17 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Howie et al. in view of Batchelder et al.

Howie et al. teaches all limitations as applied above, but does not teach the rearranging of the detector, flow cell, and light source such that the sample flow is orthogonal to a detector or radiation source, and that is parallel to a direction of polarization of the incident radiation.

Batchelder et al. teaches a flow cytometer comprising a polarized radiation source (10), a flow capillary (28), and detectors (52 and 54) where the direction of polarization is selectable to include being parallel to the flow trajectory, and the sample stream is orthogonal to the radiation source and detection means.

Batchelder et al. modifies the device of Howie et al. to produce a flow cytometer with selectable polarization states of incident radiation and a plurality of detection means to receive scattered radiation at a selected angle where the flow cell, radiation source and detection means are arranged as described above.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Howie et al. with the device of Batchelder et al. because one of ordinary skill would have arranged the components of Howie et al. to achieve the optimum detection conditions. One of ordinary skill in the art would have known to select the polarization state relative to the direction of sample flow and arranged the detectors accordingly because Batchelder teaches this arrangement.

Art Unit: 2881

## Response to Arguments

Applicant's arguments filed in paper no. 14 on April 13, 2003 have been fully considered but are not persuasive.

Applicant argues that the obviousness rejection and rationale submitted by the Examiner in the previous office action is inappropriate because Howie et al. and/or Batchelder fail to teach the specific limitation of a detector arranged at 54.7 degrees or 35.3 degrees from a direction of irradiation polarization or sample flow respectively. Examiner submitted an argument and rationale why this limitation would be obvious to one of ordinary skill in the art given the teachings Howie et al. and or Batchelder. The Applicant's argument is not persuasive.

Furthermore, the applicant argues that the obviousness rejection submitted by the Examiner is incorrect because neither Howie et al. or Batchelder fail to teach the detection of radiation independent of any anisotropic effect. This limitation is present only in the preamble of claim 13 and fails to serve as a limitation in the claim given the breadth of the claimed method steps of claim 13. Furthermore, since this language is only present in the preamble of claim 13, the use of arguments based on this claim language as a rationale for arguing the patentability of other pending claims is moot, save those claims which depend on claim 13. Arguments regarding the detection of fluorescence also apply here because the only mention of fluorescence is in the preamble of claim 13 as well.

Since the arguments presented by the Applicant do not assert why it would not be obvious art to select the optimum value of the position of the detectors because one

Art Unit: 2881

of ordinary skill in the art would select the position of the detectors for the analysis of a desired scattered radiation and to select the polarization state relative to the direction of sample flow and arranged the detectors accordingly because Batchelder teaches the selected arrangement of detectors about a sample flow in a cytometer, the rejection is made FINAL.

## Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A Vanore whose telephone number is 703-306-0246. The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Lee can be reached on 703-308-4116. The fax phone numbers for

Art Unit: 2881

Page 6

the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

dav

April 18, 2003

JOHN R. LEE

SUFERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800